CINEMA SERIES

- For small to large cinemas
- Passive 2-way surround channel loudspeaker
- THX®-approved

PRODUCT INFORMATION

The CR82 two-way, passive, full range cinema surround loudspeaker system is engineered to reproduce today's full bandwidth digital surround tracks in smaller cinemas. It features a 12-in woofer and a 1.4-in exit compression driver mounted coaxially with EAW's proprietary WGP® (Wave Guide Plate®) mounted in a slanted baffle.
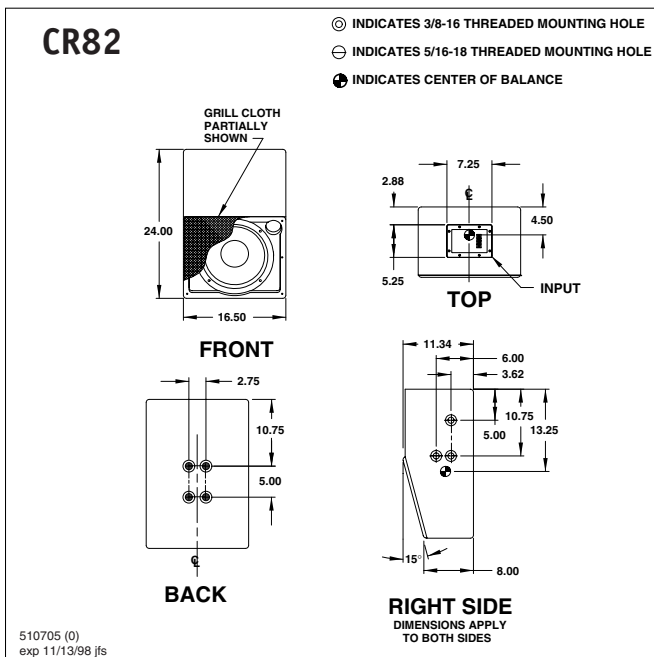
This system is approved by the THX division of Lucasfilm, Ltd., for use in THX-certified theaters.

The CR82 is specifically engineered to cover a larger seating area with higher quality, higher output sound than traditional cinema surrounds. With 250 Watts AES standard power handling and a 90° conical coverage pattern, it can be mounted higher than traditional surrounds. Higher placement lets the system cover a larger area "across" the room creating a larger area of stereo surround coverage than traditional surround placement. The WGP's® extra wide dispersion pattern lets CR82's be used in cinemas with low ceilings without sacrificing coverage of fringe seats.

The passive crossover/filter network included in the CR82 goes beyond merely dividing the signal and actually performs critical equalization functions. This means it will provide more detailed, more natural reproduction of any sonic event occurring in the 360° aural arena. The crossover/filter network tailors HF response to match the SMPTE/ISO 2969 response curve.

The front baffle is angled down 15° to accommodate overhead mounting. The optimally vented enclosure increases LF response while limiting driver excursion. This method produces less distortion and minimizes driver strain while extending LF response to the lowest octaves.

The input connector – a 2-terminal barrier strip that accommodates bare wire, tinned leads or spade lugs - is located on top of the enclosure. The enclosure features a textured black finish to eliminate visual intrusion of visible surrounds. For safety, the cloth grill is attached with multiple threaded fasteners.

CR82

◎ INDICATES 3/8-16 THREADED MOUNTING HOLE
⊖ INDICATES 5/16-18 THREADED MOUNTING HOLE
⊕ INDICATES CENTER OF BALANCE

GRILL CLOTH PARTIALLY SHOWN

24.00
16.50
FRONT

7.25
2.88
4.50
5.25
TOP
INPUT

2.75
10.75
5.00
BACK

11.34
6.00
3.62
10.75
5.00
13.25
15°
8.00
RIGHT SIDE
DIMENSIONS APPLY TO BOTH SIDES

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THX is a registered trademark of Lucasfilm, Ltd.

CINEMA
EAW
SYSTEMS

COMPONENTS & CONSTRUCTION

The CR82 two-way, passive, full range cinema surround loudspeaker system includes a 1.4-in exit compression driver mounted on EAW's proprietary WGP® (Wave Guide Plate®) mounted coaxially within a 12-in cone transducer on a slanted baffle. The LF and HF sections are integrated with a complex, multicomponent passive crossover/filter network which tailors HF response to match the SMPTE/ISO 2969 response curve.

The enclosure is constructed of 3/4-in Medium Density Fiberboard (MDF). Extensive internal bracing is employed to minimize panel resonances resulting from the large acoustical energies generated within the enclosure while maximizing acoustical energy transfer into the audience area.

Input connectors, located on the top of the enclosure, are 2-terminal barrier strip, designed to accommodate bare wire, tinned leads or spade lugs. For safety, the black cloth grill is attached with multiple threaded fasteners.

DESCRIPTIVE DATA

LF Subsystem & Loading	1x 12-in Cone, Vented
HF Subsystem & Loading	1x 1.4-in Compression Driver on WGP™
Number of Audio Bands	2-way
Type of Audio Bands	Full Range
Powering Mode	Passive
System Crossover	Passive
Cabinet Type (shape)	Rectangular, slant baffle
Enclosure Materials	MDF
Finish	Textured Black
Connectors	2-terminal barrier strip
Suspension Hardware	(6) 3/8-16 threaded points (3 per side) plus (4) 1/4"-20 threaded points on back to accept Omnimount Series 100 or APC MM024
Grill	Black Cloth on plastic frame

NOMINAL DATA

Frequency Response

±3 dB	SMPTE/ISO 2969 "X" curve 70 Hz - 17 kHz
-10 dB	58 Hz

Axial Sensitivity (dB SPL, 1 Watt @ 1m)

Full Range Passive	101

Impedance (Ohms)

Full Range Passive	12

Power Handling, AES Standard (Watts)

Full Range AES Standard	250

Calculated Maximum Output (dB SPL @ 1m)

Full Range Peak	131.0
Full Range Long Term	125.0

Nominal Coverage Angle/-6 dB points (degrees)

Conical	90

Dimensions & Weights	Inches	Centimeters
Height	24.25	61.6
Width	16.50	41.9
Depth (Top)	11.00	29.2
Depth (Max.)	11.50	27.9
Depth (Bottom)	8.00	20.3

Weights	Pounds	Kilograms
Net Weight	48	21.8
Shipping Weight	52	23.7